

Substitute Specification

CLAIMS

I claim:

1. (Currently amended) Device for automated detection of mountings among animals, intended to be worn by an animal, said device comprising:

a fastener positioned on said animal;

means for detecting a mounting attempt by said animal on a female animal; and

means for identifying an electronic tag placed in an organ of said female animal, activated by said means for detecting or means for identifying or both by processing an image of at least a part of said female animal activated by said means for detecting.

2. (Currently amended) Device as per claim 1, further comprising:

means for identifying an electronic tag placed in an organ of said female animal, activated by said means for detecting.

3. (Currently amended) Device as per claim 2, wherein said electronic tag is placed in a digestive tract of said female animal.

4. (Currently amended) Device as per Claim 1, further comprising:

a memory of identifications of excluded electronic tags; and

means for excluding identifications of electronic tags capable of not taking into account identifications of tags stored in said memory.

5. (Currently amended) Device as per Claim 1, wherein said means for detecting and said means identifying are comprised of emitting a magnetic field energizing said electronic tag placed in said organ of said female animal to energize said electronic tag.

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6. (Currently amended) Device as per Claim 1, wherein said means for identifying comprises a means for writing onto said electronic tag.

7. (Currently amended) Device as per Claim 1, wherein said fastener comprises: a harness positioning during a mounting attempt, said means for identifying having an antenna in place to receive signals emitted by said electronic tag.

8. (Currently amended) Device as per Claim 1, wherein said means for detecting mounting attempts is comprised of a verticality sensor.

9. (Currently amended) Device as per Claim 1, wherein said means for detecting mounting attempts comprises a sensor for the pressure exerted on a back of said female animal, said pressure sensor being placed under a belly of the animal wearing the device.

10. (Currently amended) Device as per Claim 1, wherein said means for detecting mounting attempts comprises a temperature sensor, said temperature sensor being placed under the belly of the animal wearing the device.

11. (Currently amended) Device as per Claim 1, wherein said means for detecting mounting attempts comprises a motion sensor, movements of the animal wearing the device being sensed.

12. (Currently amended) Device as per Claim 1, further comprising:
means for identifying said female animal by processing an image of at least one part of said female animal, said means for identifying said female by processing being activated by said means for detecting.

13. (Currently amended) Device as per Claim 1, further comprising:

means for determining time and date of each mounting attempt.

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14. (Currently amended) Device as per Claim 1, further comprising:

means for transmitting at least one part of the identifications of the female animal identified by said means for identifying.

15. (Currently amended) Device as per Claim 1, further comprising:

means for processing identifications of female animals capable of determining at least one result of statistical analysis of mounting attempts for each female animal.

16. (Currently amended) Process as per claim 15, wherein said means for processing the identifications of female animals is capable of determining said result bases on a calibration of libido of at least one animal of said fraction of the animals.

17. (Currently amended) Device for automated detection of mountings between animals, being placed in an organ of a female animal, said device comprising:

means for detecting a mounting attempt on said female animal by another animal,
means for processing said mounting attempt, and
means for transmitting a result of processing.

18. (Currently amended) Process of automated detection of mountings among animals, comprising the steps of:

installing a means for detecting mounting attempts on a female animal and a means for identifying said female animal on a fraction of animals in a herd, each animal of said fraction being liable to make said mounting attempts;

detecting a mounting attempt by said each animal on a female animal; and

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identifying, in event of detection of a mounting attempt, an electronic tag placed in an organ of a detected female animal or identifying said detected female animal by processing of an image of said detected female animal.

19. (Currently amended) Process as per claim 18, wherein said step of identifying an electronic tag placed in the organ of said female animal, is comprised of identifying an electronic tag placed in the organ of said female animal.

20. (Currently amended) Process as per Claim 18, further comprising the step of:

calibrating libido of at least one animal of said fraction of animals of the herd.

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ABSTRACT OF THE DISCLOSURE

The inventive device for automatically detecting the mating of animals is wearable by an animal. The device includes a fixing to an animal mechanism, a detector for an attempt of mating a female animal by the animal with the fixing mechanism, and an identifier for an electronic label which is introduced in the body of the female animal and actuated by the detector and/or by the female animal identification device by processing the image of at least one part of the female animal triggered by the detector. The identifier includes a communicator with an electronic label carried by a female animal. The communicator can read the electronic label identifier of each female animal which the animal attempts to mate. The communication can also be provided with a device for storing representative information on the attempted mating in the random access memory of the electronic label.